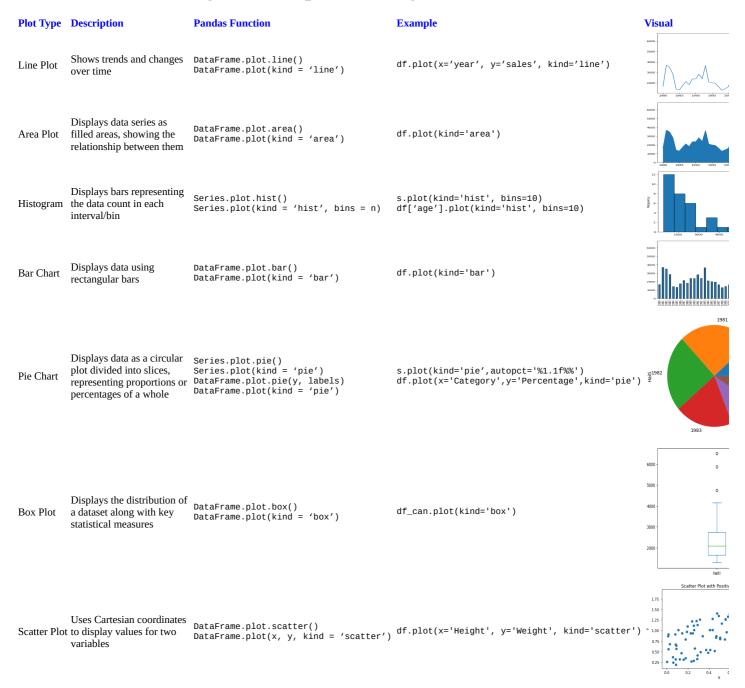


Data Visualization with Python

Cheat Sheet: Plotting with Matplotlib using Pandas



Cheat Sheet: Plotting directly with Matplotlib

Plot Type	Description	Matplotlib Function	Example	Visual
Line Plot	Shows trends and changes over time	plt.plot()	<pre>plt.plot(x, y, color='red', linewidth=2)</pre>	Unne Pfot 1

Plot Type	Description	Matplotlib Function	Example	Visual
Area Plot	Display data series as filled areas	plt.fill_between()	<pre>plt.fill_between(x, y1, y2, color='blue', alpha=0.5)</pre>	5000 5000 3000 3000 3000 3000 3000 3000
Histogram	Displays bars representing the data count in each interval/bin	plt.hist()	<pre>plt.hist(data, bins=10, color='orange', edgecolor='black')</pre>	Age Distribution in Tranic Dataset
Bar Chart	Displays data using rectangular bars	plt.bar()	<pre>plt.bar(x, height, color='green', width=0.5)</pre>	Sample flar Plot 25 20 20 30 4 6 Category
Pie Chart	Displays data as a circular plot divided into slices, representing proportions or percentages of a whole	plt.pie()	plt.pie(sizes, labels=labels, colors=colors, explode=explode)	1981 21982 2 1983
Box Plot	Displays the distribution of a dataset along with key statistical measures	plt.boxplot()	plt.boxplot(data, notch=True)	Box Plot 6 6 7 8 9 -2 -0 Data
Scatter Plot	Uses Cartesian coordinates to display values for two variables	plt.scatter()	<pre>plt.scatter(x, y, color='purple', marker='o', s=50)</pre>	Scatter Plot without Outliers
Subplotting	Creating multiple plots on one figure	plt.subplots()	<pre>fig, axes = plt.subplots(nrows=2, ncols=2)</pre>	Line plot on intringuents Line plot on intringuents Eccater plot
Customizatio	Customizing plot: adding labels, title, legend, grid	Various customization	<pre>plt.title('Title') plt.xlabel('X Label') plt.ylabel('Y Label') plt.legend() plt.grid(True)</pre>	

Author(s)

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Changelog

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